

**Notice of Allowability**

Application No.

09/671,468

Examiner

Daniel J. Ryman

Applicant(s)

HASEGAWA ET AL.

Art Unit

2616

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to AF Amendment filed 4/12/2007.
2. ☒ The allowed claim(s) is/are 13,16-18,21,22,25,26 and 35-37, renumbered as claims 1-11, respectively.
3. ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
  - a) ☐ All   b) ☐ Some\*   c) ☐ None   of the:
  1. ☐ Certified copies of the priority documents have been received.
  2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
  3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

\* Certified copies not received: \_\_\_\_\_.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.

**THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.**

4. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
5. ☐ CORRECTED DRAWINGS ( as "replacement sheets") must be submitted.
  - (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review ( PTO-948) attached
    - 1) ☐ hereto or 2) ☐ to Paper No./Mail Date \_\_\_\_\_.
  - (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date \_\_\_\_\_.Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).
6. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

**Attachment(s)**

- |                                                                                                            |                                                                                                  |
|------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------|
| 1. <input type="checkbox"/> Notice of References Cited (PTO-892)                                           | 5. <input type="checkbox"/> Notice of Informal Patent Application                                |
| 2. <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948)                       | 6. <input checked="" type="checkbox"/> Interview Summary (PTO-413),<br>Paper No./Mail Date _____ |
| 3. <input type="checkbox"/> Information Disclosure Statements (PTO/SB/08),<br>Paper No./Mail Date _____    | 7. <input checked="" type="checkbox"/> Examiner's Amendment/Comment                              |
| 4. <input type="checkbox"/> Examiner's Comment Regarding Requirement for Deposit<br>of Biological Material | 8. <input type="checkbox"/> Examiner's Statement of Reasons for Allowance                        |
|                                                                                                            | 9. <input type="checkbox"/> Other _____                                                          |

### EXAMINER'S AMENDMENT

1. An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with Dexter T. Chang on 27 April 2007.

The application has been amended as follows:

- In claim 13, line 9, "at time" should be --at a time--.
- In claim 13, line 12, "device in the office" should be --device on the office--.
- In claim 13, line 16, "the office side" should be --the office side to create a phase-change point--.
- In claim 13, lines 16-17, "and a phase-change" should be --and wherein the phase-change--.
- In claim 13, line 19, "said interval" should be --said interval in which effects of crosstalk from a neighboring line are received--.
- In claim 18, line 17, "training symbols" should be --training symbols to create a phase-change point--.
- In claim 18, lines 17-18, "and the device" should be --and wherein the device--.
- In claim 18, line 18, "detects a phase-change" should be --detects the phase-change--.
- In claim 18, line 20, "said interval" should be --said interval in which effects of crosstalk from a neighboring line are received--.

Art Unit: 2616

- In claim 22, line 11, "at time" should be --at a time--.
- In claim 22, line 27, "training symbols and" should be --training symbols to create a phase-change point and--.
- In claim 22, line 28, "detects a phase-change" should be --detects the phase-change--.
- In claim 35, line 10, "at time" should be --at a time--.
- In claim 35, line 12, "device in the office" should be --device on the office--.
- In claim 35, line 15, "symbol sequence by" should be --symbol sequence to create a phase-change point by--.
- In claim 35, line 17, "and a phase-change" should be --and the phase-change--.
- In claim 35, line 20, "said interval" should be --said interval in which effects of crosstalk from a neighboring ISDN ping-pong transmission line are received--.
- In claim 36, line 18, "training symbols" should be --training symbols to create a phase-change point--.
- In claim 36, line 20, "detects a phase-change" should be --detects the phase-change--.
- In claim 36, line 22, "said interval" should be --said interval in which effects of crosstalk from a neighboring ISDN ping-pong transmission line are received --.
- In claim 37, line 11, "at time" should be --at a time--.
- In claim 37, line 27, "training symbols during" should be --training symbols to create a phase-change point during--.
- In claim 37, line 29, "detects a phase-change" should be --detects the phase-change--.

Art Unit: 2616

2. In addition, this application is in condition for allowance except for the presence of claims 1-12 directed to inventions non-elected without traverse. Accordingly, claims 1-12 have been cancelled.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Daniel J. Ryman whose telephone number is (571)272-3152. The examiner can normally be reached on Mon.-Fri. 8:00am-4:30pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Huy Vu can be reached on (571)272-3155. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Daniel J. Ryman  
Examiner  
Art Unit 2616

*Daniel Ryman*